

SEQUENCE LISTING

<110> Wong, Gordon G.
 Clark, Hilary
 Fechtel, Kim
 Agostino, Michael J.
 Howes, Steven H.
 Resnick, Richard J.
 Gulukota, Kamalakar
 Graham, James R.
 Genetics Institute, Inc.

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<210> 15

<211> 1158

<212> DNA

<213> Homo sapiens

<400> 15

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<210> 16

<211> 1880

<212> DNA

<213> Homo sapiens

<400> 16

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<210> 17

<211> 1190

<212> DNA

<213> Homo sapiens

<400> 17

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<210> 18

<211> 2173

<212> DNA

<213> Homo sapiens

<400> 18

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<211> 1364

<212> DNA

<213> Homo sapiens

<400> 19

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<210> 20

<211> 1082

<212> DNA

<213> Homo sapiens

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<211> 1268

<212> DNA

<213> Homo sapiens

<400> 21

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<211> 1204

<212> DNA

<213> Homo sapiens

<400> 22

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<210> 23

<211> 1728

<212> DNA

<213> Homo sapiens

<400> 23

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<210> 24

<211> 895

<212> DNA

<213> Homo sapiens

<400> 24

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actaccacc ggcccgcta ggtgccgcgc tgtggggccg cagcggcgc ctgctctggg 300
ccagccccc aggtcgtctg ctgcaggccc gagctgagct ggggtccaca gacaatgacc 360

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ttgagcgaca ggaggatgag caggacacag actatgacca cgtcgcggat ggtggcctgc 420
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ccgtgcgggc tgaggaagcc agagacagtg acacggaggg cgacctgggc ctgggctccc 540
caggaccagc gagcgcaggg gacagtgtct aggccctgct gaggtagcctg cagccctttg 600
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<210> 25

<211> 927

<212> DNA

<213> Homo sapiens

<400> 25

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<210> 26

<211> 468

<212> DNA

<213> Homo sapiens

<400> 26

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cctccacgcg ttccgcgcgc gcgggagggc gcgtgccccg ccgcgcgccg ggaccggggg 420
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<210> 27

<211> 488

<212> DNA

<213> Homo sapiens

<400> 27

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cgcgcgccaa gatccattcg ttgccggcg aggggaagct tgggatcatg gaattggccg 180
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atgtcattca attccagtca cctcttctgc aatcatgacc tcttgatgtc tccatgggtga 420

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cctccttggg ggtcactgac cctgcttggt ggggtcccc ttgtaacaat aaaatctatt 480
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<210> 28

<211> 1502

<212> DNA

<213> Homo sapiens

<400> 28

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<210> 29

<211> 503

<212> DNA

<213> Homo sapiens

<400> 29

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atgattatth	acttatttaa	ttaatttatt	ttgagatgga	gtctcactct	gtcaccagc	180
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tctcctgctt	cagtctccc	agtggctggg	actgcaggca	tgcgccacca	tgcccggtt	300
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gacctcgggt	gatctgcctg	cctcggcctc	ccaaagtgt	gggattacag	gcgtgagcca	420
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<210> 30

<211> 514

<212> DNA

<213> Homo sapiens

<400> 30

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acggtgagcc	cgggcgtgct	ggcagggatc	gtgatgggag	acctggtgct	gacagtgtc	180


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attgccctgg ccgtgtactt cctggggccgg ctgggtccctc gggggcgagg ggctgcggag 240
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tcattccaac tcctaccgcg atacagaccc acagagtgcc atccctgaga gaccagaccg 480
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```

<210> 31

<211> 581

<212> DNA

<213> Homo sapiens

<400> 31

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ggagggtactg gaggtcatgg tgggtgggtgga ggtgatagtg gtgaagggtga tggagggtgg 180
ggagggttatg gagataatgg tgggtgggtgga ggtgatagat atttgaacat gcctgaccta 240
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tgactgtgcc actgcactcc aaccagagg acggagcgag accctgtctc ttaaaatatt 420
ttttttacag tgcattttca tgtgtttcaa tctcctagtg tccctgccaa aaatatattt 480
atctgaatca aatcatgggg aaattatgag acaaatcagg tcaaaagaca gtttacaaaa 540
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```

<210> 32

<211> 550

<212> DNA

<213> Homo sapiens

<400> 32

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atgtctccat ggtgacctcc ttgggggtca ctgacctgc ttggtggggg ccccttgta 480
acaataaaat ctatttaaac tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaag 550

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<210> 33

<211> 1344

<212> DNA

<213> Homo sapiens

<400> 33

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aagccccaga ggggcaatga ctggtcacac ctttgagcaa aaagaacaaa ggagaagaaa 180
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acaaaggcct cccagccccc atcgagaaaa ccatctccaa aaccaaaggg cagccccgag 900
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<210> 34

<211> 496

<212> DNA

<213> Homo sapiens

<400> 34

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gtttgagcct ccacaaataa tgcaaccaag ttttacatth ttaacagccc ttctacatac 180
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aatgcaattc atgaggacca cttagtcctt acatgaatct ggttgctaac atttctatta 420
tattgtgaca atgactcccg actgttatth tctgtgagaa atggggggag taaattctta 480
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<210> 35

<211> 478

<212> DNA

<213> Homo sapiens

<400> 35

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catgggcctg ctgctgggtg cagcgtggcc gcctcctgag agttggccct cccttgtgcc 420
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<210> 36

<211> 811

<212> DNA

<213> Homo sapiens

<400> 36

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gcctgacaaa cggctccagg taccccaact gtgcataccg gaccagcccg aagagagaca 420
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gagtgggttg tgagggtggg cccatgttaa cccctccact ctttctttca ataaaacgcg 720
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa g                                     811

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<210> 37
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 37
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<210> 38
 <211> 670
 <212> DNA
 <213> Homo sapiens

<400> 38
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<210> 39
 <211> 1095
 <212> DNA
 <213> Homo sapiens

<400> 39
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 cagtagagga gaaacacctg ctttcaaata cacaaggaa gtgttgagtt gttgcccggc 180
 tgtgattggt ggaaggcatc tcttgggcag tgaagctgag acctcaggct gtggccgtgg 240
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 aataagctaa tagacgatga tcctaattgct ccccatgcga cgggttggtg atccccgatg 480
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 ggctctgtac ctcggcaccc cagagccccc ctgcctgccc tgaggagctc ttataaaaag 600
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<210> 40
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<212> DNA

<213> Homo sapiens

<400> 40

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<211> 764

<212> DNA

<213> Homo sapiens

<400> 41

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<211> 788

<212> DNA

<213> Homo sapiens

<400> 42

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 <212> DNA
 <213> Homo sapiens

<400> 43
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 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 46

<211> 959

<212> DNA

<213> Homo sapiens

<400> 46

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<210> 47

<211> 1174

<212> DNA

<213> Homo sapiens

<400> 47

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<211> 1157

<212> DNA

<213> Homo sapiens

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<211> 2193

<212> DNA

<213> Homo sapiens

<400> 49

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<210> 50
 <211> 651
 <212> DNA
 <213> Homo sapiens

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<400> 50
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<210> 51
 <211> 1204
 <212> DNA
 <213> Homo sapiens

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<400> 51
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<212> DNA

<213> Homo sapiens

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<211> 1254

<212> DNA

<213> Homo sapiens

<400> 54

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<210> 55

<211> 1127

<212> DNA

<213> Homo sapiens

<400> 55

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<210> 56

<211> 968

<212> DNA

<213> Homo sapiens

<400> 56

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<210> 57

<211> 1002

<212> DNA

<213> Homo sapiens

<400> 57

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<210> 58

<211> 691

<212> DNA

<213> Homo sapiens

<400> 58

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<211> 943

<212> DNA

<213> Homo sapiens

<400> 59

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<210> 60

<211> 2399

<212> DNA

<213> Homo sapiens

<400> 60

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<210> 61

<211> 1516

<212> DNA

<213> Homo sapiens

<400> 61

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<210> 62

<211> 933

<212> DNA

<213> Homo sapiens

<400> 62

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<210> 63

<211> 1232

<212> DNA

<213> Homo sapiens

<400> 63

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<210> 64

<211> 1207

<212> DNA

<213> Homo sapiens

<400> 64

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gttgggttta	gcttttgtgt	gtgcatcagt	gacttagagt	tctgtaataa	cttattgtaa	1140
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<210> 65

<211> 1279

<212> DNA

<213> Homo sapiens

<400> 65

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<210> 66

<211> 938

<212> DNA

<213> Homo sapiens

<400> 66

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<210> 67

<211> 1369

<212> DNA

<213> Homo sapiens

<400> 67

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<210> 68

<211> 857

<212> DNA

<213> Homo sapiens

<400> 68

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<210> 69

<211> 824

<212> DNA

<213> Homo sapiens

<400> 69

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<210> 70

<211> 928

<212> DNA

<213> Homo sapiens

<400> 70

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<210> 71

<211> 672

<212> DNA

<213> Homo sapiens

<400> 71

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<210> 72

<211> 518

<212> DNA

<213> Homo sapiens

<400> 72

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<210> 73

<211> 1519

<212> DNA

<213> Homo sapiens

<400> 73

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 80
<211> 1035
<212> DNA
<213> Homo sapiens

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<210> 81
<211> 1113
<212> DNA

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<213> Homo sapiens

<400> 81

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<210> 82

<211> 1574

<212> DNA

<213> Homo sapiens

<400> 82

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<210> 83

<211> 1817

<212> DNA

<213> Homo sapiens

<400> 83

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<210> 84

<211> 1079

<212> DNA

<213> Homo sapiens

<400> 84

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<210> 85

<211> 1011

<212> DNA

<213> Homo sapiens

<400> 85

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<210> 86

<211> 549

<212> DNA

<213> Homo sapiens

<400> 86

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ccttagaaa 549

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<210> 87

<211> 1539

<212> DNA

<213> Homo sapiens

<400> 87

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<210> 88

<211> 1161

<212> DNA

<213> Homo sapiens

<400> 88

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<210> 89

<211> 1466

<212> DNA

<213> Homo sapiens

<400> 89

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<210> 90

<211> 826

<212> DNA

<213> Homo sapiens

<400> 90

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<210> 91

<211> 395

<212> DNA

<213> Homo sapiens

<400> 91

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<210> 92

<211> 772

<212> DNA

<213> Homo sapiens

<400> 92

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 <212> DNA
 <213> Homo sapiens

<400> 93
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 <212> DNA
 <213> Homo sapiens

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<210> 96

<211> 2047

<212> DNA

<213> Homo sapiens

<400> 96

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<210> 97

<211> 2082

<212> DNA

<213> Homo sapiens

<400> 97

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<211> 1736

<212> DNA

<213> Homo sapiens

<400> 98

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<210> 99

<211> 1379

<212> DNA

<213> Homo sapiens

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<210> 100

<211> 1309

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1565

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 105

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<211> 1259

<212> DNA

<213> Homo sapiens

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<211> 1990

<212> DNA

<213> Homo sapiens

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<211> 1021

<212> DNA

<213> Homo sapiens

<400> 108

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<210> 109

<211> 1603

<212> DNA

<213> Homo sapiens

<400> 109

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<210> 110

<211> 1456

<212> DNA

<213> Homo sapiens

<400> 110

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<210> 111

<211> 1615

<212> DNA

<213> Homo sapiens

<400> 111

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<210> 112

<211> 621

<212> DNA

<213> Homo sapiens

<400> 112

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<210> 113

<211> 1331

<212> DNA

<213> Homo sapiens

<400> 113

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<210> 114

<211> 1590

<212> DNA

<213> Homo sapiens

<400> 114

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<210> 115

<211> 2410

<212> DNA

<213> Homo sapiens

<400> 115

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<211> 984

<212> DNA

<213> Homo sapiens

<400> 116

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<210> 117

<211> 1048

<212> DNA

<213> Homo sapiens

<400> 117

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<211> 1965

<212> DNA

<213> Homo sapiens

<400> 118

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<210> 119

<211> 574

<212> DNA

<213> Homo sapiens

<400> 119

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<210> 120

<211> 1334

<212> DNA

<213> Homo sapiens

<400> 120

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<210> 121

<211> 989

<212> DNA

<213> Homo sapiens

<400> 121

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<210> 122

<211> 2085

<212> DNA

<213> Homo sapiens

<400> 122

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<210> 123

<211> 1816

<212> DNA

<213> Homo sapiens

<400> 123

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<211> 2222

<212> DNA

<213> Homo sapiens

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<211> 1252

<212> DNA

<213> Homo sapiens

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<211> 981

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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<400> 131

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<211> 1225

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 2108

<212> DNA

<213> Homo sapiens

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<210> 135
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 <212> DNA
 <213> Homo sapiens

<400> 135
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<210> 137

<211> 1362

<212> DNA

<213> Homo sapiens

<400> 137

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<210> 138

<211> 1505

<212> DNA

<213> Homo sapiens

<400> 138

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<211> 1579

<212> DNA

<213> Homo sapiens

<400> 139

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<211> 1641

<212> DNA

<213> Homo sapiens

<400> 140

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<210> 141

<211> 1492

<212> DNA

<213> Homo sapiens

<400> 141

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<210> 142

<211> 1816

<212> DNA

<213> Homo sapiens

<400> 142

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<210> 143

<211> 2230

<212> DNA

<213> Homo sapiens

<400> 143

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<210> 144

<211> 1025

<212> DNA

<213> Homo sapiens

<400> 144

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<210> 145

<211> 994

<212> DNA

<213> Homo sapiens

<400> 145

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<210> 146

<211> 1913

<212> DNA

<213> Homo sapiens

<400> 146

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<210> 147

<211> 982

<212> DNA

<213> Homo sapiens

<400> 147

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<210> 148

<211> 1078

<212> DNA

<213> Homo sapiens

<400> 148

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<210> 149

<211> 1310

<212> DNA

<213> Homo sapiens

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<210> 150

<211> 858

<212> DNA

<213> Homo sapiens

<400> 150

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<210> 151

<211> 1154

<212> DNA

<213> Homo sapiens

<400> 151

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<210> 152

<211> 2290

<212> DNA

<213> Homo sapiens

<400> 152

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<210> 153

<211> 446

<212> DNA

<213> Homo sapiens

<400> 153

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<210> 154

<211> 2732

<212> DNA

<213> Homo sapiens

<400> 154

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<210> 155

<211> 582

<212> DNA

<213> Homo sapiens

<400> 155

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ctgcaccact ccagcctggg cgacagagcg agactccgtc tc 582

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<210> 156

<211> 731

<212> DNA

<213> Homo sapiens

<400> 156

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cgcagctcag taagaaaatg cttttgagct ataaccagg ttgagtacca ttggtacatt 180
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agtccagatt tcttgactg gtgctattgg gtttgccggg ggagatttat gacctcagg 300
ataataaccg gaagaacagt gagtagaaag ctcagggata tgagttttgc tgtatatcaa 360

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gagccactat cggagcaaga ctgttccaga gggtaaaaca cacgcgtgcc tgtagagcag 660
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<210> 157

<211> 868

<212> DNA

<213> Homo sapiens

<400> 157

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<210> 158

<211> 857

<212> DNA

<213> Homo sapiens

<400> 158

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<210> 159

<211> 1456

<212> DNA

<213> Homo sapiens

<400> 159

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agacaccaca gctgatttct tcctgaccac tatgcccact gactccctca gtgtttccac 180

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<210> 160

<211> 585

<212> DNA

<213> Homo sapiens

<400> 160

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585

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<210> 161

<211> 592

<212> DNA

<213> Homo sapiens

<400> 161

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<210> 162

<211> 3760

<212> DNA

<213> Homo sapiens

<400> 162

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<211> 766

<212> DNA

<213> Homo sapiens

<400> 163

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<212> DNA

<213> Homo sapiens

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<211> 366

<212> DNA

<213> Homo sapiens

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<210> 171

<211> 1061

<212> DNA

<213> Homo sapiens

<400> 171

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acggagctgg agaaggcagt cattgtcctg gtggaaaact tctacaaata tgtgtctaag 180
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cccctttggc cacaccttcc aggcactggc ctgatgcccc gccctgggtg tctccccagg 480
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ctctgaccct tgctgaactg gggtcctttt gtgagtgtct cagtctagag gtacctcctt 600
ccctgggggg tctcagctcc tggagtcgca ggcccttggg gccctctgtg gagatctcaa 660
tgctgtctgg ggaccctaag agttttctca cctgttcagt ctcactaac cttccaatgt 720
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cctcctcctg ttgcttgaaa taatgatgat ataaaggctg gatttggagt ttgtatcccc 1020
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<210> 172

<211> 347

<212> DNA

<213> Homo sapiens

<400> 172

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acattcgctt aaggacacca gctgcggaat ttgcggcttt ggcagattga aatcatggca 60
ggtccagaaa gtgatgcgca ataccagttc actgggatta aaaaatattt caactcttat 120
actctcacag gtagaatgaa ctgtgtactg gccacatatg gaagcattgc attgattgtc 180
ttatatattc agttaaggct caaaaaaact ccagctgtga aagcaacata aatggatttt 240
aaactgtcta cggttcttaa cctcatctgt taagttccca tgcctggaga agctaattgcc 300
aactcatcat gtgataattc aatttgtaca ataaattatg aacctgc 347

```

<210> 173

<211> 694

<212> DNA

<213> Homo sapiens

<400> 173

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actctcctgt aaaacgctag agcggcgagt tgttacctgc gtcctctgac ctgagagcga 60
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gtccaagtac atcggcacgg gccacgccga caccaccaag tgggagtggt tgggtgaacca 180
acaccgcgac tcgtactgct cctacatggg ccacttcgac cttctcaact acttcgccat 240
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ttgtggaccg ccagccgaca agcccagga gaactgagac tctgccttac caccgcagtg 360
cggggcacct ctcccagcgt ttctccggtt tgccaatcct cttaagtatt cctgtctcca 420
aaggaccggc tctccatggc tcctgcgcct cgtgctttcc gcgtacagaa gtgcttgccc 480
ggggagtccc gcttgacctg ccttcattgt gaccttaga acagcactgg gagaccagca 540
ggactcctga gaactgtgct ggtggagagg tctagagacc ggcgagcgtt tgagaagagg 600
gcattggcgt ggagtgatg gggatttggc gtctcgtttt tggctaattg attgtcattg 660
gctttttcca taaagttagt aaatcgtaaa aaac 694

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<210> 174

<211> 771

<212> DNA

<213> Homo sapiens

<400> 174

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attcttgccg ctggcccagt cgctatgtag nggaggggca gacaccctcc cgcaaattct 60
ggaaggttct tagtctcgac tagggcagta gcccagggac tcctagtcgc cggcttcagg 120
tactgcccg ctgaacggag ctgccgtcgc cactgtttgg ctgcttggtg gcggggaggc 180
tggtgcaaac agctgcacag caagtggcag aggataaatt tgtttttgac ttacctgatt 240
atgaaagtat caaccatggt gtggttttta tgctgggaac aatcccattt cctgagggaa 300
tgaggaggatc tgtctacttt tcttatcctg attcaaattg aatgccagta tggcaactcc 360
taggatttgt cacgaatggg aagccaagtg ccatcttcaa aatttcaggc cttaaatctg 420
gagaaggaag ccaacatcct tttggagcca tgaatattgt ccgaactcca tctgttgctc 480
agattggaat ttcagtggaa ttattagaca gtatggctca gcagactcct gtaggtaatg 540
ctgctgtatc ctcagttgac tcattcactc agttcacaca aaagatgttg gacaatttct 600
acaattttgc ttcattcattt gctgtctctc aggcccagat gacaccaagc ccatctgaaa 660
tggttcattcc ggcaaattgt gttctgaaat ggtatgaaaa ctttcaaaga cgactagcac 720
agaaccctct cttttggaaa acataatttg aataaaataa tttttaatgg t 771

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<210> 175

<211> 552

<212> DNA

<213> Homo sapiens

<400> 175

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ggccacctcc tctcccacat ctctgagag gccagggcac caccaccatg actccgactc 60
caactcccc tgctgtaaga ggaggaagcg gggacacagt ggggacagga ggagcccgtc 120
tcgcaggtgg catgacagag gctctgaggc ctgatggctg gacctgctc actgctgttg 180
tgggaccctg aaccctccct tcacctgct tgccctctgc ctcggaagct ccttggggtg 240
gggtgaagcc cgaggctgct cctgtggaag tggctctggg caccagcctg tggggctaaa 300
gacttgacag ctagctctgg agcagccggc ttcctggaaa acctccaggt ttcgcatacc 360
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ggactccctc tgtgtcctgc ccatgggttg agcagccatg ggcctatgag cggctctaact 480
gtggccaagt atggtgacct ctatttttct ttatattgac tctttgtatt tcaataaata 540
tatttttaaaa gc 552

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<210> 176

<211> 401

<212> DNA

<213> Homo sapiens

<400> 176

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gccgggctaaa cgcgtgcggg ggaggtggct tcttccggcc gggccgagag gtgggttacat 60
tcgttgaagg acaccagctg cggaaatttg ggctttggca gattgaaatc atggcaggctc 120
cagaaagtga tgcgcaatac cagttcactg gtattaaaaa atatttcaac tcttatactc 180
tcacaggtag aatgaactgt gtactggcca catatggaag cattgcattg attgtcttat 240
atttcaagtt aaggtccaaa aaaactccag ctgtgaaagc aacataaatg gatttttaaac 300
tgtctacggg tcttaacctc atctgttaag ttcccatgcc tggagaagct aatgccaaact 360
catcatgtga taattcaatt tgtacaataa attatgaacc c 401

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<210> 177

<211> 396

<212> DNA

<213> Homo sapiens

<400> 177

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ttagaatgcc ctcggtaaca cagaggctga gagatcctga cataaatcct tgtttgtcgg 120
aatctgatgc ttccaccaga tgtctggatg aaaataacta tgacagggaa aggtgttcca 180
cttacttctt gaggtacaaa aactgccgga gattctggaa ttctatcgtg atgcagagaa 240
gaaagaacgg agtgaagcca tttatgccta cggcagcaga aagagatgaa atcttgagag 300
cagtgggaaa tatgccctat tgaatgtttg cattaaaagt gtttatataa cttagaagca 360
gatgaatatt tctaataaat gattgctgta atattc 396

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<210> 178

<211> 949
 <212> DNA
 <213> Homo sapiens

<400> 178
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 gcggcttgat ttaccagttg gacagctacg cgccacgggc tgaggctgag aaaactttca 120
 gttatccgct ggatctgctg ctcaagctac acgatgagcg tgtgttggtt gctttcggcc 180
 agcgggacgg catccgagtg ggtcatgcag tgctggccat caatggcatg gacgtgaatg 240
 gcaggtacac ggccgacggg aaagaggtgc tggagtatct gggtaaccct gctaattacc 300
 cgggtgtccat tcgatttggc cggccccgcc tcacttctaa tgagaagctt atgctggcct 360
 ccatgttcca ctgctcttt gccatcggt cccagctgtc tcctgaacag ggaagctcag 420
 gcattgagat gctggagaca gacacattca aattgcactg ctaccagaca ctgacaggga 480
 tcaagtittgt ggttctagca gacccataggc aagctggaat agattctctt ctccgaaaga 540
 tttatgagat ttactcagac tttgccctca agaattccatt ctattcctta gaaatgccta 600
 tcaggtgtga gctctttgac cagaacctga agctagctct ggaggtggca gagaaggctg 660
 gaacttttgg acctgggtca taggctgaac ctgttatgga cccccaatt ctgagagttc 720
 ctgcaacaag aatactgctg ttgacactcc agtggaaatc ccagcagcct tgttagtgca 780
 cttgaaagtg ggagaatgct gaccctgatg acttgtagtg attcctgagc cttaacactg 840
 tgctctttcc ttctgtatat gccatggtct tactttccaa ctctgtacag atttatttat 900
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<210> 179
 <211> 1067
 <212> DNA
 <213> Homo sapiens

<400> 179
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 gatggcagat tttttgaaag gactgcctgt ctacaacaaa agcaatttta gtcgatttca 180
 cgcggactcc gtgtgcaaag cctcgaaccg acggccctca gtctacctgc ctaccgcgca 240
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 ggacacttaa gactctcaac tccacaggcg cctcctgccca ggtctgctcc tcggctcgccc 480
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 tttatttatg ctgtaacctg tatcaagcgt tgggttaaagg ggacatcaga cccagtagtg 660
 tgatgttggg agatgctttt taaaaaaaac aacattgtcc ccccgacccc cgccttccat 720
 cgggccagtt ccccgattcc tgccccaggt tctccagaga accagagtgt gtctgtgaga 780
 gtctctagcg ggggctttac tgtggccggg cgacaggggc gggcccgggg tggcctgacc 840
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 tcttgtecca ccttcgcccc gaactttccc atgccagac ctcaactcagc gtgcacgcac 960
 gttggggaga agtcggccct tgggatcttt ctcttgagtc attttatttt tatcatggac 1020
 tagtgcggtg tccgtgtcca cccaataaaa agggctcttc ctactcg 1067

<210> 180
 <211> 675
 <212> DNA
 <213> Homo sapiens

<400> 180
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 aacagagcgg ctggaaggct ggtgctgccga gatggacaag gagaccaaaag agaacaacct 120
 ctctgaagaa gtcttaggaa aagtcctcag tgctgtgggc agtgcccagc tactgatgtc 180
 ccagaaattc cagcagttcc ggggcctctg tgagcaaaac ttgaaccctg atgccaaacc 240
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 gacccccgag aagaggaagg aagagaagaa accaccccct ccggtcccaa agaagccagc 420
 caaatccaag ccggcagtg ggcgcgacaa ggcctcagac gccagcgaca agcagcgcca 480


```

ggaggcccgcc aagagactcc tggcggccaa gcgggcagct tctgtgcggc agaactcagc 540
caccgagagc gcagacagca tcgagattta tgtcccggag gccagacca ggctctgaga 600
ccatgcagga ggaaagaaac gatttttaaat cattaaaaac acaaaaacta agtgcgaacg 660
gaacagagtt ttcac 675

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<210> 181
 <211> 581
 <212> DNA
 <213> Homo sapiens

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<400> 181
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aactgggtta ggtgccgctg ttgctgctcg tgttgaatct agaaccgtag ccagacatgg 120
gactggagga cgagcaaaag atgcttaccg aatccggaga tcttgaggag gaggaagagg 180
aagaggagga attagtggat cccctaacaa cagtgcgaga gcaatgcgag cagttggaga 240
aatgtgtaaa ggcccgggag cggctagagc tctgtgatga gcgtgtatcc tctcgatcac 300
atacagaaga ggattgcacg gaggagctct ttgacttctt gcatgcgagg gaccattgcg 360
tggcccacaa actctttaac aacttgaat aaatgtgtgg acttaattca ccccagtctt 420
catcatctgg gcatcagaat atttccttat ggttttggat gtaccatttg tttcttattt 480
gtgtaactgt aagttcacat gaacctcatg ggtttggctt aggctggtag cttctatgta 540
attcgcaatg attccatcta aataaaagtt ctatgatctg c 581

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<210> 182
 <211> 931
 <212> DNA
 <213> Homo sapiens

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<400> 182
gggatctgga gcagcagctg caggatgagc tcttgagggt ggtctcagag ctccagacgg 60
ccaagaagac gtaccaggca tatcacatgg agagcgtgaa tgccgaggcc aagctccggg 120
aggccgagcg gcaggaggag aagcgggagc gtccgcacag tcgaagccac acctgggtctg 180
ttttctgtgc actgtagcct tagtgtcacc tttcttcttg tgtctcctta tggtagactc 240
cagcgggttg cttttttatc atttctactg aagttgggaa attcaacccc agaaattgac 300
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acagggtttt ttcatttttg tgggggctag aaaaaacata aaatgaggca gttaaataat 420
aatagttaat gaagggtgtg tacagaaaat aatctgggtg tcttgctaac tttgcccttc 480
actgttgctt aattgtgaac agccaaaagc tatatgttat ggcttattgt gtgaaggtaa 540
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agccccgcac atgtgagtga aagtacttca ggcacgctgc ctcttggtta cagctatgca 720
gggaggggagg acccacactg ctacacttct gatccccctt ggttttacta cccaaatcta 780
aatagatact tttgataata gataactgct cttttactaa gacatagtct ctacctatag 840
aaatgtattt tgaaaacact tattttacac agcaattttg tatccattta aactaacctt 900
ttatcaataa agcactattg tttagatatt c 931

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<210> 183
 <211> 1016
 <212> DNA
 <213> Homo sapiens

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<400> 183
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cctcttgatc tggccatata tacattaaat gctattttct tcaagcagtg agacaaagct 120
gagagacgat aggttttaaag attgggttaca aattctgatg aagactgggc cttgaagtct 180
ttgggctgtt acatggccct ttggaagcaa taggtcatca ctgtgaacaa cttctgtagg 240
tactggtttc cataggaagg gaatacatct tgatgacttt acatgaagtc ttaactttat 300
ttgctgttta atgtaagttg gtcaagggtc ttattgagca gaagaaactt gggaaatgaa 360
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aaaatgctct ccacggaggc tcagaagaga tgaaaagaca ggaaaaggag ctgaaaagat 480
gaaaaaaaaa aaaaaaaaaa aaaaaggaaa atcaaggcct tctacaaaac aaaaactttg 540
gacagcatct tgattcctcc tccacctctt ccatattagc cttgagactc tttctgaaaa 600

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taaaaaggag	ggagttcttc	cttgtcataa	ttatcccatc	cttagtgtaa	tcactatcca	660
aaattagtct	ggaaccttct	aaatcaattc	catagttctt	gggcaatatt	ttgagaaatt	720
cgcttaatgt	gacttgacag	aatctctggg	ctggatggta	ttagagcgat	tacagtagta	780
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ccagagttta	tatagtgtctg	ggtaacatgt	aagccttttt	gaaatgaagt	ctcctaggaa	900
gattgaaaac	atcagcaatc	ccttgatacc	accagcaatc	catctaccac	ctgtacattt	960
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<210> 184

<211> 413

<212> DNA

<213> Homo sapiens

<400> 184

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agggaattg	tcagtctttt	tagagaaggg	gccagggtgg	aacaatccca	gtgagtaaat	180
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aaggagcttg	cctcttttgag	aaaccaagga	gtcccagtgga	tctgtttacca	tttgggttatg	300
acttctaaag	agccaaatgc	tattccttca	agcctgtttt	gcaggcagaa	aataccagca	360
gtgtcattta	ggggttcctt	tgatgatgac	tactgctggt	aactgacctc	agc	413

<210> 185

<211> 961

<212> DNA

<213> Homo sapiens

<400> 185

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acccctata	tataaatata	tgtaatcaat	ttcttcaa	agcttgctta	catgataatc	120
aattagccaa	ccatgagtca	tttagaatag	tgataaatag	aatacacaga	atagtgatga	180
aattcaattt	aaaaaatcac	gttagcctcc	aaaccattta	attcaaatga	acccatcaac	240
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attgctttgt	gtgcgacagg	gaggaagttt	caataaagca	gcaacaagct	tcaaaaaaaaa	960
g						961

<210> 186

<211> 712

<212> DNA

<213> Homo sapiens

<400> 186

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cgatggacct	tgactcaag	tgaggagaca	ggccatgcct	ttcagtgca	tgagctcac	180
tgatttcata	ctcaagtttc	cgcacagtgc	ccaccagaag	tatgtccgac	aagcctggca	240
gaaggcagac	atcaatacaa	aatgggcagc	cacacgatgg	gccaagaaga	ttgaagccag	300
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gaggaacaga	ataatcaaga	atgaagttaa	gaagcttcaa	aaggcagctc	tcctgaaagc	420
ttctcccaaa	aaagcacctg	gtactaaggg	tactgctgct	gctgctgctg	ctgctgctgc	480
tgctgctgct	gctgctgcta	aagttccagc	aaaaaagatc	accgccgcga	gtaaaaaggc	540

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tccagcccag aaggttcctg cccagaaagc cacaggccag aaagcagcgc ctgctccaaa 600
agctcagaag ggtcaaaaag ctccagccca gaaagcacct gctccaaagg catctggcaa 660
gaaagcataa gtggcaatca taaaaagtaa taaaggttct ttttgacctg tc 712

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<210> 187

<211> 391

<212> DNA

<213> Homo sapiens

<400> 187

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aaaagaagaa agatgaggca gaggtccaag taaaccgcta gcttggttgca ccgtggaggc 120
cacaggagca gaaacatgga atgccagacg ctgggggatgc tgggtacaagt tgtgggactg 180
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atcacctctg agaccacac tgcctcataa caaaatgccc atgttggtcc tctgccctgg 300
acctgtgaca ttctggacta tttctgtgtt tatttgtggc cgagtgtaac aaccatataa 360
taaatacact cttccgctgt tttagctgaa g 391

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<210> 188

<211> 717

<212> DNA

<213> Homo sapiens

<400> 188

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atgtcttgcc aggagttaag cggcctctgg ggtggtgggg aaatacttta tttct+acca 180
tttatttttt gtggggcggg gataggggag ggcattgaag ttctacaatt ctggaatagt 240
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atctatgcgt gtcattttaa gaaaagttgc agaacaagca attggcttag atatacaatc 360
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<210> 189

<211> 288

<212> DNA

<213> Homo sapiens

<400> 189

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atatcattcc agtacgtttt gttgtacatt ttagtcttgt ttactttctc ttcattgtta 180
agaggatgag aactgtacag tttccagcta gttacccata ttagagaaga aataagagag 240
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<210> 190

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 190

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<210> 191

<211> 1644

<212> DNA

<213> Homo sapiens

<400> 191

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<210> 192

<211> 2231

<212> DNA

<213> Homo sapiens

<400> 192

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<210> 193

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 193

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<210> 194

<211> 1528

<212> DNA

<213> Homo sapiens

<400> 194

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<210> 195

<211> 624

<212> DNA

<213> Homo sapiens

<400> 195

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<210> 196

<211> 417

<212> DNA

<213> Homo sapiens

<400> 196

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 <212> DNA
 <213> Homo sapiens

<400> 197
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<210> 198
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 198
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<210> 199
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 199
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 <211> 1701
 <212> DNA
 <213> Homo sapiens

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<210> 201

<211> 1169

<212> DNA

<213> Homo sapiens

<400> 201

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<210> 202

<211> 1975

<212> DNA

<213> Homo sapiens

<400> 202

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<210> 203

<211> 440

<212> DNA

<213> Homo sapiens

<400> 203

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<210> 204

<211> 981

<212> DNA

<213> Homo sapiens

<400> 204

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 <211> 648
 <212> DNA
 <213> Homo sapiens

<400> 206
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<210> 207
 <211> 610
 <212> DNA
 <213> Homo sapiens

<400> 207

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<210> 208

<211> 2454

<212> DNA

<213> Homo sapiens

<400> 208

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<210> 209

<211> 1967

<212> DNA

<213> Homo sapiens

<400> 209

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<210> 210

<211> 1682

<212> DNA

<213> Homo sapiens

<400> 210

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<210> 211

<211> 1096

<212> DNA

<213> Homo sapiens

<400> 211

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<212> DNA

<213> Homo sapiens

<400> 212

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 <211> 1504
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 <213> Homo sapiens

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<211> 623

<212> DNA

<213> Homo sapiens

<400> 215

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<211> 676

<212> DNA

<213> Homo sapiens

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<210> 217

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 217

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<210> 218

<211> 966

<212> DNA

<213> Homo sapiens

<400> 218

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<211> 2206

<212> DNA

<213> Homo sapiens

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<211> 1373

<212> DNA

<213> Homo sapiens

<400> 220

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<210> 221

<211> 982

<212> DNA

<213> Homo sapiens

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<210> 222

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 222

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<210> 223

<211> 1627

<212> DNA

<213> Homo sapiens

<400> 223

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<210> 224

<211> 1868

<212> DNA

<213> Homo sapiens

<400> 224

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<210> 225

<211> 2980

<212> DNA

<213> Homo sapiens

<400> 225

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<210> 226

<211> 1013

<212> DNA

<213> Homo sapiens

<400> 226

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<210> 227

<211> 2634

<212> DNA

<213> Homo sapiens

<400> 227

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<212> DNA

<213> Homo sapiens

<400> 233

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<212> DNA

<213> Homo sapiens

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<211> 1963

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 2193

<212> DNA

<213> Homo sapiens

<400> 239

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<211> 420

<212> DNA

<213> Homo sapiens

<400> 240

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<213> Homo sapiens

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<211> 1995

<212> DNA

<213> Homo sapiens

<400> 242

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<211> 2212

<212> DNA

<213> Homo sapiens

<400> 243

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 246

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<211> 2254

<212> DNA

<213> Homo sapiens

<400> 247

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<211> 2730

<212> DNA

<213> Homo sapiens

<400> 248

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<211> 1678

<212> DNA

<213> Homo sapiens

<400> 249

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1850

<212> DNA

<213> Homo sapiens

<400> 252

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<210> 253

<211> 1767

<212> DNA

<213> Homo sapiens

<400> 253

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<210> 254

<211> 286

<212> DNA

<213> Homo sapiens

<400> 254

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<210> 255

<211> 1896

<212> DNA

<213> Homo sapiens

<400> 255

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<210> 256

<211> 1896

<212> DNA

<213> Homo sapiens

<400> 256

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<210> 257

<211> 1590

<212> DNA

<213> Homo sapiens

<400> 257

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<210> 258

<211> 2825

<212> DNA

<213> Homo sapiens

<400> 258

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<211> 2296

<212> DNA

<213> Homo sapiens

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<211> 1801

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 262

<211> 1841

<212> DNA

<213> Homo sapiens

<400> 262

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<210> 263

<211> 1907

<212> DNA

<213> Homo sapiens

<400> 263

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<211> 697

<212> DNA

<213> Homo sapiens

<400> 264

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<211> 1960

<212> DNA

<213> Homo sapiens

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<210> 266

<211> 977

<212> DNA

<213> Homo sapiens

<400> 266

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<210> 267

<211> 2084

<212> DNA

<213> Homo sapiens

<400> 267

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<210> 268

<211> 2513

<212> DNA

<213> Homo sapiens

<400> 268

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<210> 269

<211> 1693

<212> DNA

<213> Homo sapiens

<400> 269

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<210> 270

<211> 2149

<212> DNA

<213> Homo sapiens

<400> 270

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<210> 271

<211> 1812

<212> DNA

<213> Homo sapiens

<400> 271

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<210> 272

<211> 1831

<212> DNA

<213> Homo sapiens

<400> 272

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<210> 273

<211> 1542

<212> DNA

<213> Homo sapiens

<400> 273

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<211> 2085

<212> DNA

<213> Homo sapiens

<400> 274

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<210> 275

<211> 2507

<212> DNA

<213> Homo sapiens

<400> 275

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<210> 276

<211> 2824

<212> DNA

<213> Homo sapiens

<400> 276

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<210> 277

<211> 1829

<212> DNA

<213> Homo sapiens

<400> 277

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<211> 2470

<212> DNA

<213> Homo sapiens

<400> 278

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<210> 279

<211> 2057

<212> DNA

<213> Homo sapiens

<400> 279

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<210> 280

<211> 2451

<212> DNA

<213> Homo sapiens

<400> 280

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<210> 281

<211> 1874

<212> DNA

<213> Homo sapiens

<400> 281

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<210> 282

<211> 1050

<212> DNA

<213> Homo sapiens

<400> 282

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<210> 283

<211> 3384

<212> DNA

<213> Homo sapiens

<400> 283

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<212> DNA

<213> Homo sapiens

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<211> 1861

<212> DNA

<213> Homo sapiens

<400> 285

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<211> 2153

<212> DNA

<213> Homo sapiens

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<210> 290

<211> 2241

<212> DNA

<213> Homo sapiens

<400> 290

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<211> 1827

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 292

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<211> 1241

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 2236

<212> DNA

<213> Homo sapiens

<400> 295

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<212> DNA

<213> Homo sapiens

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<211> 3479

<212> DNA

<213> Homo sapiens

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<211> 416

<212> DNA

<213> Homo sapiens

<400> 299

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<211> 259

<212> DNA

<213> Homo sapiens

<400> 300

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<210> 301

<211> 2968

<212> DNA

<213> Homo sapiens

<400> 301

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<210> 302

<211> 2023

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 304

<211> 1774

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<210> 308

<211> 1947

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 309

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<211> 1898

<212> DNA

<213> Homo sapiens

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<212> DNA

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<211> 1757

<212> DNA

<213> Homo sapiens

<400> 313

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<211> 2377

<212> DNA

<213> Homo sapiens

<400> 314

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<210> 315

<211> 1856

<212> DNA

<213> Homo sapiens

<400> 315

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<211> 2311

<212> DNA

<213> Homo sapiens

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<210> 317

<211> 418

<212> DNA

<213> Homo sapiens

<400> 317

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<211> 2706

<212> DNA

<213> Homo sapiens

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<211> 2044

<212> DNA

<213> Homo sapiens

<400> 319

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<210> 320

<211> 2266

<212> DNA

<213> Homo sapiens

<400> 320

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<210> 321

<211> 1640

<212> DNA

<213> Homo sapiens

<400> 321

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<210> 322

<211> 2670

<212> DNA

<213> Homo sapiens

<400> 322

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<210> 323

<211> 1914

<212> DNA

<213> Homo sapiens

<400> 323

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<211> 2275

<212> DNA

<213> Homo sapiens

<400> 324

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<210> 325

<211> 2029

<212> DNA

<213> Homo sapiens

<400> 325

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<210> 326

<211> 403

<212> DNA

<213> Homo sapiens

<400> 326

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<210> 327

<211> 1863

<212> DNA

<213> Homo sapiens

<400> 327

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<210> 328

<211> 1855

<212> DNA

<213> Homo sapiens

<400> 328

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<210> 329

<211> 2095

<212> DNA

<213> Homo sapiens

<400> 329

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<211> 2380

<212> DNA

<213> Homo sapiens

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<211> 1266

<212> DNA

<213> Homo sapiens

<400> 331

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<211> 1473

<212> DNA

<213> Homo sapiens

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<210> 333

<211> 2076

<212> DNA

<213> Homo sapiens

<400> 333

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<211> 2678

<212> DNA

<213> Homo sapiens

<400> 341

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<212> DNA

<213> Homo sapiens

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<210> 343

<211> 2053

<212> DNA

<213> Homo sapiens

<400> 343

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<210> 344

<211> 1917

<212> DNA

<213> Homo sapiens

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<211> 512

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1733

<212> DNA

<213> Homo sapiens

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<212> DNA

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<212> DNA

<213> Homo sapiens

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2017

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<210> 364

<211> 522

<212> DNA

<213> Homo sapiens

<400> 364

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<211> 2610

<212> DNA

<213> Homo sapiens

<400> 365

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<211> 744

<212> DNA

<213> Homo sapiens

<400> 366

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<210> 367

<211> 1351

<212> DNA

<213> Homo sapiens

<400> 367

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<210> 368
 <211> 1045
 <212> DNA
 <213> Homo sapiens

<400> 368

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<210> 369
 <211> 1781
 <212> DNA
 <213> Homo sapiens

<400> 369

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1781

<210> 370

<211> 404

<212> DNA

<213> Homo sapiens

<400> 370

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<210> 371

<211> 1219

<212> DNA

<213> Homo sapiens

<400> 371

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gatggtggtt	catgtctaca	atcccagcac	tttgggaagc	cgaggcagga	ggatcacttg	1140
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<210> 372

<211> 1690

<212> DNA

<213> Homo sapiens

<400> 372

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catgtggtca	cattacttca	ggtacaagac	tgatcatgtc	taaaatatac	gtcaaaggaa	540
aactgtaatg	gaaaaatggc	aaccctgtct	gtaggaggaa	aaactgtatc	acgttttcgt	600
aaagctacat	ccatattgga	attttaccgg	gaacttggtg	tgccgcccga	acagacagtt	660

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ggactatagt gcaacctatt tgggtaaaga aaccatttgc taaaatggag aaagtaaata 1620
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ataaattatc 1690

```

<210> 373

<211> 297

<212> DNA

<213> Homo sapiens

<400> 373

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taccacataa aattattaca aattgcaaat gttgggtattg ctgatttgatt atctgtacaa 180
agaaagaagc tctatgcagt gagtttgtgg tttaatgggtc acaaaaatgt tagcactgct 240
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```

<210> 374

<211> 1150

<212> DNA

<213> Homo sapiens

<400> 374

```

ggcgtccggg ctggtaagat tgctgcagca gggacatcgc tgcctcctgg ctccagtcgc 60
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ccagaaggag ttagagcggc agcgccttct gcggtgcccg ccgcgcgccg tgcgcgcttc 180
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aacttgagag cgaaagtgag ataaatgtca aagggtgtttc aagccagaca ttttcacaat 1080
tgtgaagaaa tagatgtttt gtttctgttt tttactgtgt tcccaaaatt aaataaatgt 1140
taaccaagtc 1150

```

<210> 375

<211> 623

<212> DNA

<213> Homo sapiens

<400> 375

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gccgagatgc tttatggatt gatccacgcc cgctacatcc ttaccaaccg tggcatcgcc 120
cagatgttgg aaaagtacca gcaaggagac tttgggttact gtcctcgtgt gtactgtgag 180
aaccagccaa tgcttcccat tggcctttca gacatcccag gtgaagccat ggtgaagctc 240
tactgcccc aagtgcattgga tgtgtacaca cccaagtcac caagacacca tcacacggat 300
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gcctaccagc tgcagctcca agccgccagc aacttcaaga gccagtcaa gacgattcgc 480
tgattccctc cccacactgt cctgcagtct ttgacttttc ctttcttttt tgccaccctt 540
tcaggaaccc tgtatggttt ttagtttaaa ttaaaggagt cgttatcgtg gtgggaatat 600
gaaataaagt agaagaaaag gcc                                     623

```

<210> 376

<211> 1108

<212> DNA

<213> Homo sapiens

<400> 376

```

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gacgggttca cgccgcccct gccccgtgaa ggaccgcgct gcggtgcgga ggcaggatga 180
cgcaaaacac ggtgattgtg aatggagttg ctatggcctc taggccatcc cagcccaccc 240
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```

<210> 377

<211> 574

<212> DNA

<213> Homo sapiens

<400> 377

```

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ccgagggcag ccgcgcaagt ttcccgggac cctcagagtt gcactccgaa gactccagat 180
tccgagagtt gcggaaacgc tacgaggacc tgctaaccag gctgcggggc aaccagagct 240
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ggtcgtggga cgtgacacga ccgctgcggc gtcagctcag ccttgcaaga ccccaggcgc 480
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```

<210> 378

<211> 2235

<212> DNA

<213> Homo sapiens

<400> 378

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caggtggccc acgaagctac ccaagacatc tctgcacagc cctagccttt ttggcttcac 180
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<210> 379

<211> 1543

<212> DNA

<213> Homo sapiens

<400> 379

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ccgtgcaagt aaactcactc aggtgttaag agattctttc ataggtgaaa actctcgtac 180
ctgcatgatt gccacaatct ctccaggaat ggcacctgtg gaaaataactc ttaatacatt 240
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tccaataatg caccatccac caaaccagat tgatgactta gagacacagt ggggtgtggg 360
gagttccct cagagagatg atctaaaact tctttgtgaa caaatgaag aagaagtctc 420
tccacagttg tttactttcc acgaagctgt ttcacaaatg gtagaaatgg aagaacaagt 480
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cctcttagag atgactgaag aagtagatta tgatgtcgat tcatatgcta cacaacttga 600
agctattctt gagcaaaaaa tagacatttt aactgaactg cgggataaag tgaaatcttt 660
ccgtgcagct ctacaagagg aggaacaac cagcaagcaa atcaaccgga agagaccccg 720
tggcccttta aaccggcatt tgctgctaaa ggataccag aaccctcact actgtnacat 780

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```

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<210> 380

<211> 1087

<212> DNA

<213> Homo sapiens

<400> 380

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```

<210> 381

<211> 2349

<212> DNA

<213> Homo sapiens

<400> 381

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acaaccagac atgggtccac cgctatgggg agagcatcct gccaccacg ctcaccacgc 180
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```

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ggtttttag                                     2349

```

<210> 382

<211> 342

<212> DNA

<213> Homo sapiens

<400> 382

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cacagctgtg gggcttcagc agccacacca gccagccca gccagctct cgatacgttt 300
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<210> 383

<211> 295

<212> DNA

<213> Homo sapiens

<400> 383

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<210> 384

<211> 549

<212> DNA

<213> Homo sapiens

<400> 384

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<210> 385

<211> 1881

<212> DNA

<213> Homo sapiens

<400> 385

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<210> 386

<211> 435

<212> DNA

<213> Homo sapiens

<400> 386

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agctttgtcc	catttcttat	cctttttgct	ctttagaaat	ttccctttta	tttattacat	360
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<210> 387
 <211> 945
 <212> DNA
 <213> Homo sapiens

<400> 387
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<210> 388
 <211> 1091
 <212> DNA
 <213> Homo sapiens

<400> 388
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<210> 389
 <211> 2026
 <212> DNA
 <213> Homo sapiens

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 aagccctacc tggtttgga ttccacgact tgaaaggatc gtccacggga gtaataaaat 360

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<210> 390

<211> 1974

<212> DNA

<213> Homo sapiens

<400> 390

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<210> 391

<211> 2167

<212> DNA

<213> Homo sapiens

<400> 391

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<210> 392

<211> 475

<212> DNA

<213> Homo sapiens

<400> 392

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<210> 393

<211> 1512

<212> DNA

<213> Homo sapiens

<400> 393

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<210> 394

<211> 489

<212> DNA

<213> Homo sapiens

<400> 394

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<210> 395

<211> 380

<212> DNA

<213> Homo sapiens

<400> 395

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<210> 396

<211> 1542

<212> DNA

<213> Homo sapiens

<400> 396

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<210> 397

<211> 1874

<212> DNA

<213> Homo sapiens

<400> 397

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<210> 398

<211> 1186

<212> DNA

<213> Homo sapiens

<400> 398

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<210> 399

<211> 2749

<212> DNA

<213> Homo sapiens

<400> 399

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<211> 1167

<212> DNA

<213> Homo sapiens

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<210> 401
<211> 1004
<212> DNA
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<210> 402
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<213> Homo sapiens

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<210> 403

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<211> 869
 <212> DNA
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<400> 403

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<400> 404

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<400> 405

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<211> 878

<212> DNA

<213> Homo sapiens

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<210> 407

<211> 1832

<212> DNA

<213> Homo sapiens

<400> 407

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<211> 2596

<212> DNA

<213> Homo sapiens

<400> 408

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<211> 2368

<212> DNA

<213> Homo sapiens

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<211> 2599

<212> DNA

<213> Homo sapiens

<400> 416

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<210> 417

<211> 1283

<212> DNA

<213> Homo sapiens

<400> 417

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<210> 418

<211> 2446

<212> DNA

<213> Homo sapiens

<400> 418

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 <212> DNA
 <213> Homo sapiens

<400> 419
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 <211> 534
 <212> DNA
 <213> Homo sapiens

<400> 420
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<210> 421
 <211> 506
 <212> DNA
 <213> Homo sapiens

<400> 421

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<210> 422

<211> 1109

<212> DNA

<213> Homo sapiens

<400> 422

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<210> 423

<211> 1468

<212> DNA

<213> Homo sapiens

<400> 423

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<210> 424

<211> 677

<212> DNA

<213> Homo sapiens

<400> 424

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<210> 425

<211> 1654

<212> DNA

<213> Homo sapiens

<400> 425

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1654

<210> 426

<211> 1657

<212> DNA

<213> Homo sapiens

<400> 426

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<210> 427

<211> 562

<212> DNA

<213> Homo sapiens

<400> 427

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<210> 428

<211> 466

<212> DNA

<213> Homo sapiens

<400> 428

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<210> 429

<211> 859

<212> DNA

<213> Homo sapiens

<400> 429

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<210> 430

<211> 534

<212> DNA

<213> Homo sapiens

<400> 430

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<210> 431

<211> 1038

<212> DNA

<213> Homo sapiens

<400> 431

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<210> 432

<211> 717

<212> DNA

<213> Homo sapiens

<400> 432

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<210> 433

<211> 1231

<212> DNA

<213> Homo sapiens

<400> 433

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<210> 434

<211> 398

<212> DNA

<213> Homo sapiens

<400> 434

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<210> 435

<211> 551

<212> DNA

<213> Homo sapiens

<400> 435

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<210> 436

<211> 664

<212> DNA

<213> Homo sapiens

<400> 436

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<210> 437

<211> 925

<212> DNA

<213> Homo sapiens

<400> 437

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<210> 438

<211> 351

<212> DNA

<213> Homo sapiens

<400> 438

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<210> 439

<211> 1265

<212> DNA

<213> Homo sapiens

<400> 439

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<210> 440

<211> 556

<212> DNA

<213> Homo sapiens

<400> 440

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ccttgtaagt cagttgactt gccgcacatc tctttgtgta cttgtacggg actggcagaa 180
aagtcatttt tcaaaagcca taggcttttc cttgccctta gctgtaataa tgcactctgat 240
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cagttttcta	acatagctat	aaggtccttg	ttgctgtttg	tgataactga	tagataactc	480
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<210> 441

<211> 418

<212> DNA

<213> Homo sapiens

<400> 441

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cggatattca	gaaggctatc	agattgtgag	actgcttcct	tgaaacattt	ttgtgctatt	360
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<210> 442

<211> 902

<212> DNA

<213> Homo sapiens

<400> 442

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<210> 443

<211> 553

<212> DNA

<213> Homo sapiens

<400> 443

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<210> 444

<211> 1230
 <212> DNA
 <213> Homo sapiens

<400> 444
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<210> 445
 <211> 715
 <212> DNA
 <213> Homo sapiens

<400> 445
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<210> 446
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 <212> DNA
 <213> Homo sapiens

<400> 446
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<210> 447

<211> 1031

<212> DNA

<213> Homo sapiens

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<210> 448

<211> 2166

<212> DNA

<213> Homo sapiens

<400> 448

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<210> 449

<211> 1107

<212> DNA

<213> Homo sapiens

<400> 449

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<211> 2010

<212> DNA

<213> Homo sapiens

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<210> 451

<211> 817

<212> DNA

<213> Homo sapiens

<400> 451

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<212> DNA

<213> Homo sapiens

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<211> 836

<212> DNA

<213> Homo sapiens

<400> 453

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<212> DNA

<213> Homo sapiens

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<211> 1820

<212> DNA

<213> Homo sapiens

<400> 455

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<212> DNA

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<210> 458

<211> 645

<212> DNA

<213> Homo sapiens

<400> 458

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<210> 459

<211> 659

<212> DNA

<213> Homo sapiens

<400> 459

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<210> 460

<211> 1282

<212> DNA

<213> Homo sapiens

<400> 460

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ggtcttcagc cccggggagt cccactgcgc cacatgcagt gaggatggga gtgtgcgggt 180

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```

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<210> 461

<211> 663

<212> DNA

<213> Homo sapiens

<400> 461

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gct 663

```

<210> 462

<211> 709

<212> DNA

<213> Homo sapiens

<400> 462

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ttgtcaagaa ataccctgag ccagtctctg agacgcttcg gtaaaaaatg tccctggatg 660
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<210> 463

<211> 309

<212> DNA

<213> Homo sapiens

<400> 463

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taaacagtc                                     309

```

<210> 464

<211> 324

<212> DNA

<213> Homo sapiens

<400> 464

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gatcagagaa gaggtactg ggggagaatt cagtgtcccc ttcgcccctt agggagcaga 60
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<210> 465

<211> 2140

<212> DNA

<213> Homo sapiens

<400> 465

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gaaaaccaca ttggagatgt ttagtaatca tattgttact ggtaccaaga ctactaggga 1980
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<210> 466

<211> 2510

<212> DNA

<213> Homo sapiens

<400> 466

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<210> 467

<211> 1160

<212> DNA

<213> Homo sapiens

<400> 467

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<210> 468

<211> 1866

<212> DNA

<213> Homo sapiens

<400> 468

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<210> 469

<211> 1825

<212> DNA

<213> Homo sapiens

<400> 469

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<210> 470

<211> 417

<212> DNA

<213> Homo sapiens

<400> 470

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acaagctgtc atctcgggag gagacaccag gccctgacca gacgctgaac atgccagcac 360
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<210> 471

<211> 1080

<212> DNA

<213> Homo sapiens

<400> 471

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```

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<210> 472

<211> 1266

<212> DNA

<213> Homo sapiens

<400> 472

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```

<210> 473

<211> 2748

<212> DNA

<213> Homo sapiens

<400> 473

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<210> 474

<211> 755

<212> DNA

<213> Homo sapiens

<400> 474

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<210> 475

<211> 630

<212> DNA

<213> Homo sapiens

<400> 475

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tgtttcccca taagtttttt taaattgtat attgtatttg tagtaatatt ccaaaagaat 540
gtaaatagga aatagaagag tgatgcttat gttaagtcct aacactacag tagaagaatg 600
gaagcagtgc aaataaatta catttttccc 630

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<210> 476

<211> 1143

<212> DNA

<213> Homo sapiens

<400> 476

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cggcgggggcc agctgcgttc tgagcctggg cgcagctgcc atctgctctg ggaagcacca 60
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gttggagact gaaccgttgc aaggaacaga cgaagatgca gtagccagtg ctgacttctc 180
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<210> 477

<211> 2260

<212> DNA

<213> Homo sapiens

<400> 477

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```


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<210> 478

<211> 995

<212> DNA

<213> Homo sapiens

<400> 478

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<210> 479

<211> 2803

<212> DNA

<213> Homo sapiens

<400> 479

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 482

<211> 620

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 484

<211> 1737

<212> DNA

<213> Homo sapiens

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<210> 485

<211> 1972

<212> DNA

<213> Homo sapiens

<400> 485

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<211> 2015

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<211> 1168

<212> DNA

<213> Homo sapiens

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<211> 1048

<212> DNA

<213> Homo sapiens

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<211> 2353

<212> DNA

<213> Homo sapiens

<400> 494

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 <212> DNA
 <213> Homo sapiens

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<211> 2496

<212> DNA

<213> Homo sapiens

<400> 496

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<210> 497

<211> 2053

<212> DNA

<213> Homo sapiens

<400> 497

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<211> 2610

<212> DNA

<213> Homo sapiens

<400> 498

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<211> 1212

<212> DNA

<213> Homo sapiens

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<210> 501
<211> 1971
<212> DNA
<213> Homo sapiens

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<211> 562

<212> DNA

<213> Homo sapiens

<400> 502

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<211> 977

<212> DNA

<213> Homo sapiens

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<211> 797
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 <211> 1923
 <212> DNA
 <213> Homo sapiens

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<210> 507

<211> 2477

<212> DNA

<213> Homo sapiens

<400> 507

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<211> 1308

<212> DNA

<213> Homo sapiens

<400> 508

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<211> 1381

<212> DNA

<213> Homo sapiens

<400> 509

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<211> 1514

<212> DNA

<213> Homo sapiens

<400> 510

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<212> DNA

<213> Homo sapiens

<400> 511

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<211> 1195

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1027

<212> DNA

<213> Homo sapiens

<400> 515

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<210> 516

<211> 2216

<212> DNA

<213> Homo sapiens

<400> 516

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<210> 517

<211> 1431

<212> DNA

<213> Homo sapiens

<400> 517

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<210> 518

<211> 1883

<212> DNA

<213> Homo sapiens

<400> 518

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<210> 519

<211> 693

<212> DNA

<213> Homo sapiens

<400> 519

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<211> 2024

<212> DNA

<213> Homo sapiens

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<210> 521
 <211> 1182
 <212> DNA
 <213> Homo sapiens

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<210> 522
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 <212> DNA
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<213> Homo sapiens

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<211> 586

<212> DNA

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<213> Homo sapiens

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<210> 530

<211> 2833

<212> DNA

<213> Homo sapiens

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<211> 2293

<212> DNA

<213> Homo sapiens

<400> 531

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<211> 972

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 1960

<212> DNA

<213> Homo sapiens

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<210> 535

<211> 1295

<212> DNA

<213> Homo sapiens

<400> 535

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<210> 536

<211> 1411

<212> DNA

<213> Homo sapiens

<400> 536

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<210> 537

<211> 1023

<212> DNA

<213> Homo sapiens

<400> 537

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<210> 538

<211> 1333

<212> DNA

<213> Homo sapiens

<400> 538

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gagacttcgg aacctcaaga acaaactgga gaataaaatg gaaggaatag gtttgaagag 480
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<210> 539

<211> 1110

<212> DNA

<213> Homo sapiens

<400> 539

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<210> 540

<211> 144

<212> DNA

<213> Homo sapiens

<400> 540

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tagctatgta ttcaaacagc taatagttta atgttctgct ttataaactt aatttttaggc 120
tgcattaata aaagtgtagt ctcc 144

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<210> 541

<211> 1069

<212> DNA

<213> Homo sapiens

<400> 541

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<210> 542

<211> 1634

<212> DNA

<213> Homo sapiens

<400> 542

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caaaactaaa attg 1634

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<210> 543

<211> 473

<212> DNA

<213> Homo sapiens

<400> 543

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<210> 544

<211> 642

<212> DNA

<213> Homo sapiens

<400> 544

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<210> 545

<211> 912

<212> DNA

<213> Homo sapiens

<400> 545

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<210> 546

<211> 759

<212> DNA

<213> Homo sapiens

<400> 546

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tattaaagtc	actaaatttc	tatttttgtgt	tgaacttgct	gctttttttc	atattgaaaa	720
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<210> 547

<211> 1016

<212> DNA

<213> Homo sapiens

<400> 547

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<210> 548

<211> 640

<212> DNA

<213> Homo sapiens

<400> 548

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<210> 549

<211> 591

<212> DNA

<213> Homo sapiens

<400> 549

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<210> 550

<211> 998

<212> DNA

<213> Homo sapiens

<400> 550

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<210> 551

<211> 837

<212> DNA

<213> Homo sapiens

<400> 551

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<210> 552

<211> 1957

<212> DNA

<213> Homo sapiens

<400> 552

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agtttacgcc ccaaggtaaa attaactctg ccaggctctt gtttttcacc tgcacagtt 180
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tcattaggtg	aggtagaatg	aacatggcag	aaaataggat	aggacaacat	atctttttat	300
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gcaggagaat	cgcttgaacc	tgggaggtgg	acgttgcggt	gagctgagat	cacaccattg	1920
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<210> 553

<211> 1080

<212> DNA

<213> Homo sapiens

<400> 553

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<210> 554

<211> 1004

<212> DNA

<213> Homo sapiens

<400> 554

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<210> 555

<211> 2054

<212> DNA

<213> Homo sapiens

<400> 555

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<210> 556

<211> 744

<212> DNA

<213> Homo sapiens

<400> 556

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taaaccattt gttttactgc taag 744

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<210> 557

<211> 549

<212> DNA

<213> Homo sapiens

<400> 557

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tccacgcttt gtccagaatc aactgctacc acatgagtct tcttggttaa gtcatttgag 180
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<210> 558

<211> 855

<212> DNA

<213> Homo sapiens

<400> 558

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<210> 559

<211> 504

<212> DNA

<213> Homo sapiens

<400> 559

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<210> 560

<211> 1236

<212> DNA

<213> Homo sapiens

<400> 560

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<210> 561

<211> 565

<212> DNA

<213> Homo sapiens

<400> 561

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tctttttgct ccaccctgaa ttccctcacac ctaaccctga tagttaccta aagtgcact 480
taaatgtttc agagtgaatg caaaaaagag tngatgtact tggagtcgga tatacaattt 540
atccctaatt aaagcattta aaagg

```

<210> 562

<211> 581

<212> DNA

<213> Homo sapiens

<400> 562

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cccacgcgtc cggccgcgaac ctgcacagcc atgcccgggc aagaactcag gacggtgaat 60
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tctctggccg aggcgagccg cgcaagtttc cggggaccct cagagttgca ctccgaagac 180
tccagattcc gagagttgcg gaaacgctac gaggacctgc taaccaggct gcggggccaac 240
cagagctggg aagattcgaa caccgacctc gtcccggccc ctgcagtcgg gatactcacg 300
ccagaagtgc ggctgggata cggcggccac ctgcacctgc gtatctctcg ggccgcccctt 360
cccagagggg tccccgaggc ctcccgcctt caccgggctc tgttcgggct gtccccgacg 420
gcgtcaaggt cgtgggacgt gacacgaccg ctgcggcgct agctcagcct tgcaagacct 480
caggcgcccc cgctgcacct gcgactgtcg ccgcccgcgt cgcagtcgga ccaactgctg 540
gcagaatctt cgtccgcacg gccccagctg gagttgcact t 581

```

<210> 563

<211> 1007

<212> DNA

<213> Homo sapiens

<400> 563

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gaagcggatc ccgtccgagc cccggcccca agtaacgccc ccgccccgga gccgccttgg 60
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tggaactact cagctggacg ggcaatggcg ggtcggggag gcgcagcacg acccaatgga 180
ccagctgctg ggaacaagat ctgtcaattt aagctggttc tgctggggga gtctgcggta 240
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ggggcccagg ctgccatcgt ggtctatgac atcaccaaca cagatacatt tgcacggggc 480
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gaaatcttca tggcaatagc taagaagctt cccaagaacg agccccagaa tgcaactggg 720
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cccgactgga atccactcta accaatcgca cttaacgact cggggccacca ctggggggggc 900
agggggaggg gtccaccatg atttctccat ataattttga tcataggccg gagtgagtca 960
ttccacctgc acctttctgt acaataacta attcaatttt aagtctt 1007

```

<210> 564

<211> 946

<212> DNA

<213> Homo sapiens

<400> 564

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gccaacctcc tactcctcat tgtacccatt ctaatcgcaa tggcattcct aatgcttacc 60
gaacgaaaaa ttctaggcta tatacaacta cgcaaaggcc ccaacgttgt aggcccctac 120
gggctactac aacccttcgc tgacgccata aaactcttca ccaaagagcc cctaaaaccc 180
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aactcaaact acgcccctgat cggcgcactg cgagcagtag ccaaacaat ctcatatgaa 420
gtcacccatg ccatcattct actatcaaca ttactaataa gtggctcctt taacctctcc 480
acccttatca caacacaaga acacctctga ttactcctgc catcatgacc cttggccata 540
atatgattta tctccacact agcagagacc aaccgaaccc ccttcgacct tgccgaaggg 600
gagtcggaac tagtctcagg cttcaacatc gaatacgccg caggccccct cgccctattc 660
ttcatagccg aatacacaaa cattattata ataaacaccc tcaccactar aatcttctta 720
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ctacttctaa cctccctggt cttatgaatt cgaacagcat acccccgatt ccgctacgac 840
caactcatac acctcctatg aaaaaacttc ctaccactca ccctagcatt acttatatga 900
tatgtctcca taccattac aatctccagc attccccctc aancct 946

```

<210> 565

<211> 426
 <212> DNA
 <213> Homo sapiens

<400> 565
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 tctatggaaa ggggggtacc tctccacgt gattcctaca gcagttcaag ccgcggagca 180
 ccaagagggtg gtggccgtgg aggaagccga tctgatagag ggggaggcag aagcagatac 240
 tagaaacaaa caaaactttg gaccaaatac ccagttcaaa gaaacaaaaa gtggaaacta 300
 ttctatcata actaccaag gactactaaa aggaaaaatt gtgttacttt ttttaaattc 360
 cctgttaagt tcccctccat aatttttatg ttcttgtgag gaaaaaagta aaacatgttt 420
 aatttt 426

<210> 566
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 566
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 aagaggagaa gaggaacac aagaagaaac gcctggtgca gagccccaat tctacttca 120
 tggatgtgaa atgcccagga tgctataaaa tcaccacggt ctttagccat gcacaaacgg 180
 tagttttgtg tgttggtgc tccactgtcc tctgccagcc tacaggagga aaagcaaggc 240
 ttacagaagg atgttccttc aggaggaagc agcactaaaa gcactctgag tcaagatgag 300
 tgggaaacca tctcaataaa cacatttttg at 332

<210> 567
 <211> 870
 <212> DNA
 <213> Homo sapiens

<400> 567
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 tacgcagcac tggttgcttc tgggtgggac attggctatg taaaagcagg cagcgtgccg 180
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 ggaatgaggt tctaccactc tggaaaattc atgcctgcag gtttaattgc aggtgccagt 360
 ttgctgatgg tcgcccaggt tggagttagt atgttcaaca gacccatta gcagaagtca 420
 tgttccagct tagactgatg aagaattaaa aatctgcac tccactatt ttcaatatat 480
 taagagaaat aagtgcagca tttttgcac tgacatttta cctaaaaaaa aagacaccaa 540
 acttggcaga gaggtggaaa atcagtcacg attacaaacc tacagagggt gcgagtatgt 600
 aacacaagag ctttaataaga ccctcataga gcttgattct tgtatattga tgttgtcttt 660
 tctttctgta tctgtaggta aatctcaagg gtaaaatgtt aggtgtcagc tttcagggct 720
 ctgaaacctt attccctgct ctgaggaaca gtgtgaaaaa aagtctttta ggagatttac 780
 aatatctgtt cttttgctca tcttagacca cagactgact ttgaaattat gttaagtga 840
 atatcaatga aaataaagtt tactataaat 870

<210> 568
 <211> 586
 <212> DNA
 <213> Homo sapiens

<400> 568
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 aactagtga tctggacagg gatgttttcc attccatctg gcataacccc ttctgagcc 180
 catggacata tctgaagcct tctcctcac agttcagccc aggcttcca tgaacacatt 240
 tgcttggtca catctgtctt tgtctaactc ttatagcatt tctgcttct gtcattttct 300
 gttggatact taacctttta ttaggctgtt ggtgtgtatt attctttaca gctagatctt 360

```

aaccattgg atagacatca tattttgtat ttttcacacc gatcagtttt tagctgaaag 420
ctattatata taggaggccc ttaaaatata tgttaaata gaataagtttt cacaacccgt 480
ttttgaatat ttccctctct aggtttgaac ttggctcatc ttccatagcc cacatggtaa 540
tgggtacaac aaatcaattc tccacaagaa cacggcttga agaggt 586

```

<210> 569

<211> 822

<212> DNA

<213> Homo sapiens

<400> 569

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agctcctgca cccccagggtc ctgcagctgc ttgttaagct ttttgagact gagcactccc 60
agctggacgt gatggagcag cttgagttga agaagacact gctggacagg atgggttcacc 120
tgctgagtcg aggttatgta cttcctgttg tcagttacat ccgaaagtgt ctggagaagc 180
tggacactga catttcactc attcgtctatt ttgtcactga ggtgctggac gtcattgctc 240
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ccagaacccg ttgtggaaaa accctttcaa gaagctgttt taagaggctc tggcagcgtc 480
ttgaaaatgg gcaccgctgg gaggaggtgg atgacttctt taaaaggaa aatggtagca 540
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cccaaactct gttttcagtg ttcatattccc tcaaggcagg cgctgggctc ccacgacccc 660
tcaggacaga tctggccgtc agccgcgggc cgctgggaac tccactcggg gaactccttt 720
ccaagctgac ctgagttttc tcacaagaac ccagttagct gatgttttat tgtaattgtc 780
ttaatttgct aagaacaagt aataagtaaa tttttaaaaa gc 822

```

<210> 570

<211> 1505

<212> DNA

<213> Homo sapiens

<400> 570

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gacaagcttg gtctgtaaga acacgtgggc aggtgtgtgg gtgtctcaga ccctcgagct 60
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gggtggaagg tccgcggggc ctgcttccct gttgctgggtg caggcggagt gtctgaaggc 180
tgcacgcata tgggcatagc agtgcgccta acgcttcttg taaaacagac atttcgcctg 240
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gctttttata tactcctgtt ttttctctcg tgagtgtgca atcgggggac agtggttgagt 360
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gcgggaatgg ctttccgggt gacatctgcc agtttggtcc ccatggcgct catcccgcgg 540
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ccatataaga cataggaaca tgccctggagg caaagctcct ttctaggaga gatgccctc 720
tcttacttac ataattattg tgggaaatta tatgtgaatt gcatttttaa aagcggactc 780
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gctgggcgca gtgctcacgc ctgtgatttc aacactttgg aaggctgagg caagcaatca 1440
cttgaggtcn ggagttcaag accagcctgg gcaacataac aagactcatc tctgtttatan 1500
aaggt 1505

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<210> 571

<211> 1010

<212> DNA

<213> Homo sapiens

<400> 571

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cagagaacaa gatgtgtctt atgagtcttc tttctcaata cctgccctgt ctcaaactct 60
acttgacaaa tgggtctacga tcttgacagt atccaaaaga gcctatgaaa aatggacagc 120
tgcttttgac aataatgccc ctcccaactt cccattcata gaatcataaa gcgatatgtt 180
tcagaactga gagagaaaag tttacctttt attccaaatg cctcgtactc ggtttaagtc 240
cagactcagg tcataaatca aagacagttt tgcacgttgc tcttcaccta aatctagcag 300
tttccctgag gccctatgag ggcattggaca gaaaatgaag gatgcaacca cccaggacag 360
ctccctgggt tgggctggcc tggccacgtg tggtcacatg tcctgggacg tgtgtttact 420
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ttttcctata tcaccgtgat ggtacagatg aactgagatg aaacttttag acttcagcac 660
gtcacacatc ctggttgtat aaccaggagg tctgcagagc tgcaaccctt gaagaacatc 720
tgtcttaaaa gacctcaaat cagaacattc tcattggcct cttcagtgat ccccatggag 780
ctaagagtcg gtaacctaaa ggccttacca tagccatctt ccctccacac ctgattgctc 840
aactgcccc aagggggaga atctatctga aatagaaaag aagcattaag gaccaggtgc 900
ggtggctcac acctataatc ccagcacttt gggaggccaa ggnangtga tcacttaaga 960
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<210> 572

<211> 673

<212> DNA

<213> Homo sapiens

<400> 572

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cccaggcgcc tctagacctc agcctcagcc tcagcctcag cctcagcccc gatgtcagca 60
ctgaggcctc acccccacaga gcttcccagg acattccttg cttggacagc agtgcccctg 120
agagtggcac acctatgggt gccctgggag actggcctgc ccctattgag gagcgtgaga 180
gcccggcagc ccagcccctg ctggaacacc agtactgagc tacctggcgc cactggacc 240
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ggtgtggccc ccttggcctg gacctggggc ctgaattgtg ggaaggggtg tttctttctt 600
tccttttttt tcttttctct tttttttttt tttttgtgct tcggagacat cagaattaat 660
aacactattt ttg 673

```

<210> 573

<211> 649

<212> DNA

<213> Homo sapiens

<400> 573

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tttaatttgt gcagaatgat aaagaatgtt ccttttagaa gtgtgttatg tctgtacctg 60
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gttttttaca ttggaaaaac taattcttgg gattctttca tacattttca tcaaaacttt 180
cagtgtgatt atgtattcat atcttcagtt taatatgtca gtataataga tattgttcaa 240
aagtttcttg ttgctaaagt ggtgtaatct gttacacaga tgaatagcta gatgtggaaa 300
gagatatgta aacaagaaac ctttgggtat tgtttcttaa gtaaaattgg gacaatcatg 360
gtaagcaaac ttagttctgt aactgcattt ttcaccttaa aagttaaattg aaatgcatga 420
tggtatttta ttccttgaat tatgcaatgc aacattttac atgtaaattg cactgggtcat 480
atactgatgt atatgggtat ctgggttata tctattttta tgtaaactct attttgtttt 540
tggcaagaag tgaaattgag acttatgtgc aggttgccat tgaattttgc tctggtgaat 600
gctgagatcc agctttttct tacaataaaa tgggaccctg ttttccaat 649

```

<210> 574

<211> 840

<212> DNA

<213> Homo sapiens

<400> 574

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aatctgtagt cctacaaaac tcaggcatag aactcatttc ctttatggct ctataatgga 60
actttacca actctcacgt tccccatgac cacagatgtg gaaaatttga atcttgacag 120
ttcaagggtga actcagtcac ttccagagtt ttcatagtcc cttcaagatt gaaactcagt 180
tcctgcaatg tttgcccctt ttctcctctt ttgtctatgc tgggagaggc attgtgggga 240
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acttcttttc ccaccagctg gaagaaagaa ctttcatttg tcttgaaatg agaaaaatgt 780
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<210> 575

<211> 606

<212> DNA

<213> Homo sapiens

<400> 575

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gggaggtgat cggggcagga gtaaagtgga cacctcagca aagccattcg ctgtgatctc 60
tgattgtgca gtgtcatgtc ctgtcaccag agccccctcg tgtttgatgt tggccaatgc 120
cgccagcatg atctagcagg ccaaatecta atctaccatt ctctgacacc agctgggtccc 180
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gaactttggt attctactta tttttctgta ctctgtctgt ttgcacacag atggatatct 420
gagagccagc gaactttctt tacctcctag tatcatttca tgaaaattag tagcacctgc 480
acaatggggc cttggagaca ggaataaaag gaaaaatctg gaatggaatc acatgacgca 540
acaggctatg aagactcctt gccgggtgc tatatgtctg gtaaacagaa taaatagtac 600
ttgagc 606

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<210> 576

<211> 352

<212> DNA

<213> Homo sapiens

<400> 576

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gccacctgcc ctgcctgggg gatcatactc ctgtcatagc agttgaagtt gccctcttc 60
tgccaaagtc tttcctggta tccagttgca atgagtcac ctttcttctt ggggtgtccac 120
agtttggttct tctgcttcag ttataccatt cagctcattc ttgtttttct ttttattgga 180
attatgtgtg gacttctatc ttccaaaagc ctagaagctg agggctgggt ctttgttcat 240
ctttgtgtgc cccattgcac atggaataat acttgaata caaggccggc aacaccatac 300
aagctcagtg aatatattta tgtcatgctt caataaacta atgatatttt at 352

```

<210> 577

<211> 747

<212> DNA

<213> Homo sapiens

<400> 577

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ctaattgagg attacagaaa gaaaaaaagc atttgcttta tttttagacg tgatctctga 60
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aatctgcaat tttctctaat agtcagcac ctgttaaaaa ggaggttgca caaaacactc 180
ccatttgtag tttggaagga ttattatctg ctttggtctg tgaagtggaa agtcaatgtt 240
cttattcaat ctgtgtctaa tgggtgtcatt ttgaggacaa tggaaaacag atcatgtttg 300
attccttaag atgtggccac tgctatttgt ggtacaattt gtgatctgag agctgcatgt 360

```

```

aaaaaacaca tgagcaaaaa gaatatccag cacacaaggg ctggctttct gattctcaga 420
ggtatagtga caacacagct tacctctgca ttcaaagaag ctagaactta ccgcggataa 480
tcattagtag aagacagctt aaagtagtgt ctgctttctg gctaggcctg attcacaggt 540
gctgtgataa attcaaaaag acctgcctcc tctgatgtgc tagtatcaag ggtgaggagg 600
acagttaacc aaactgggtca aaagcattgt cagcaaagac ctgggtgctga atcatgttgg 660
gaaactggag tttggagcta gagaggcaat aaccaagtat caaggctctga atgtccactt 720
tgtaaccact gtagtaataa ttgactc
747

```

<210> 578

<211> 791

<212> DNA

<213> Homo sapiens

<400> 578

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gggcaccatg ccaagcactt tcatcattat ttatacatcg tcaccacacc ccctctattc 60
atgagaagta aagctgagaa aggaccagat tgaccaagcg ccagagacaa aatgtggcac 120
aacgagaacc ccagccctgt ccagggtggct ccgcgcccag ggcccaggct tagcagtgtc 180
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ccaccctctt gcgcctctgc cctctcccag tcccctgtg gcttctgaaa atctcaggga 480
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cccaccacgg ggagaccctc atccctgccc ctgtgtggct gcgcaagtat tctgcccgcc 660
tcccaccatc agccttcgcc caagggggccc ttctgcctct gcttccctcc cttctcctct 720
gtcttgccct ggcccacgca cgctgtctc gtcttccttg ttttgctgca ctcacttttt 780
tatactctga c
791

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<210> 579

<211> 764

<212> DNA

<213> Homo sapiens

<400> 579

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cggacgcgtg ggtttcctag acacccttg gccacctttt tccacctgtt tttccgagtg 60
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gtcatggtgc tgctcctcct gtccctggac ttctgggtctg tgaagaatgt aaccggaaga 180
ctcctggtgg gccttcgatg gtggaaccag atagatgaag atgggaagag ccactggatc 240
tttgaagcca ggaaggtctc tccgaatagc attgctgcca cagaagctga agcacgaatc 300
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gccagtttcc tgtcccagac agtggtccag acggcctgcc cagggtgactt tcagaagcct 540
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tgatggagat tacaaaactc ttggattcct ggaaaacaag acgacaggca tagagtgcta 660
atggcttgct tacccttga cagccctgtc ctgtgctggg gagggctgtg ttttgacagg 720
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764

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<210> 580

<211> 746

<212> DNA

<213> Homo sapiens

<400> 580

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gcgtgggcca cgcctggag gtggaggagg cgctgctctg catggacggc gcaggcccgc 180
cagacttaag ggacctggc accacgctcg ggggcgcct gctctggctc agcggacacg 240
cggggactca ggctcagggc gctgcccggg tggccgcggc gctggacgac ggctcggccc 300
ttggccgctt cgagcggatg ctggcggcgc agggcgtgga tcccggctctg gcccagagccc 360

```

```

tgtgctcggg aagtcccgca gaacgccggc agctgctgcc tcgcgcccgg gagcaggagg 420
agctgctggc gcccgagat ggcaccgtgg agctgggtccg ggcgctgccg ctggcgctgg 480
tgctgcacga gctcggggcc gggcgagacc gcgctgggga gccgctccgc ctgggggtgg 540
gcgcagagct gctgggtcgac gtgggtcaga ggctgcgccc tgggaccccc tggctccgcg 600
tgcaccggga cggccccgcg ctgagcggcc cgcagagccg cgcctgcag gaggcgctcg 660
tactctccga ccgcgcgcca ttcgcccggc cctcgccctt cgcagagctc gttctgccgc 720
cgcagcaata aagctccttt gccgcg 746

```

<210> 581

<211> 665

<212> DNA

<213> Homo sapiens

<400> 581

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cccacgcgtc cggttataaa gaggtcacat agtcgtgtgg gtcgaggatt ctgtgcctcc 60
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ggcctctcag acccagatgt gacgggggtg gtggcccagag gaagctggac agcggcagtg 180
ggcctgctga ggccttctct tgaggcctgt gctctggggg tcccttgctt agcctgtgcc 240
tggaccagct ggcctggggg cctctgaag agaccttggc tgctcactgt ccacatgtga 300
actttttcta ggtggcagga caaatcgcg ccatttagag gatgtggctg taacctgctg 360
gatgggactc catagctcct tcccaggacc cctcagctcc ccggcactgc agtctgcaga 420
gttctcctgg aggcaggggc tgctgccttg tttcaccttc catgtcaggc cagcctgtcc 480
ctgaaagaga agatggccat gccctccatt tgtaagaaca atgccagggc ccaggaggac 540
cgcttgcctt gcctgggcct tggctgggccc tctgggtctg acactttctg ctggaagctg 600
tcaggctggg acaggctttg attttgaggg ttagcaagac aaagcaaata aatgccttcc 660
acctc 665

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<210> 582

<211> 533

<212> DNA

<213> Homo sapiens

<400> 582

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aaaagaaaaa ctgtaatcca tagccccagg cccaacacct gggctgtctc agctgggaac 60
ttgtttcagg tcgacttggg tttgagtcgt ggcccagaa cttcacagtt gtgtagtc 120
ggagaagtca gttaacctca gtgaatctca gcatccagtg agaaaatcct catctccttt 180
atagggatgc tggatgtgtg cctagcacag tgccctggctt gcagacagtg tccccaaaca 240
gaaccagccc tgaataaatt gtgtgacaca caggcctcag ttcttgaaaa ggcttttagag 300
accaggcatg tggcttatgc ctataatccc agcactttga gaggctgagg ctggaggatc 360
acttgagctc aggagtttga gaccagcctg ggcagcacat tgagactttg tctctaaaaa 420
aaaaaatcaa aaaaatttagc gaggcattgt ggcacatgcc tgtgggtccc gctaccctgg 480
aggctgaggt gctgagaatt ccagcctggg tgacacagtg agatcttgac tct 533

```

<210> 583

<211> 952

<212> DNA

<213> Homo sapiens

<400> 583

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ctttattcct gtaaatatatt ctgtgaaaac taggagaaca gagatgagat ttgacaaaaa 60
aaaattgaat taaaaataac acagtctttt taaaactaac ataggaaagc ctttcctatt 120
atttctcttc ttagcttctc cattgtctaa atcaggaaaa caggaaaaca cagctttcta 180
gcagctgcaa aatggtttaa tgcccctac atatttccat caccttgaac aatagcttta 240
gcttgggaat ctgagatatg atcccagaaa acatctgtct ctacttcggc tgcaaaaccc 300
atggttttaa tctatatggg ttgtgcattt tctcaactaa aaatrgagat gataatccga 360
attctccata tattcactaa tcaaagacac tattttcata ctagattcct gagacaaata 420
ctcactgaag ggcttggtta aaaataaatt gtgttttggg ctgttcttgt agataatgcc 480
cttctatatt aggtagaagc tctggaatcc ctttattgtg ctgttgctct tatctgcaag 540
gtggcaagca gttcttttca gcagattttg cccactattc ctctgagctg aagttctttg 600
catagatttg gcttaagctt gaattagatc cctgcaaagg cttgctctat gatgtcagat 660
gtaattgtaa atgtcagtaa tcacttcatg aacgctaaat gagaatgtaa gtatttttaa 720

```



```

atgtgtgtat ttcaaatttg tttgactaat tctggaatta caagatttct atgcaggatt 780
taccttcatc ctgtgcatgt ttcccaaact gtgaggaggg aaggctcaga gatcgagctt 840
ctcctctgag ttctaacaaa atgggtgcttt gagggtcagc ctttaggaag gtgcagcttt 900
gttgctccttt gagctttctg ttatgtgcct atcctaataa actcttaaac ac 952

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<210> 584

<211> 661

<212> DNA

<213> Homo sapiens

<400> 584

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gacgctcaga ctcttggcac ataagtctgg agactgctgt gggggtggca gtggctgtca 180
ctgtgctcgg aatcatgatt ttgggactga tctgcctcct cagggtggagg agaaggaaag 240
gtcagcagcg gactaaagcc acaaccccag ccagggaacc cttccaaaac acagaggagc 300
catatgagaa tatcaggaat gaaggacaaa atacagatcc caagctaaat cccaaggatg 360
acggcatcgt ctatgcttcc cttgcccctc ccagctccac ctcaccaga gcacctccca 420
gccaccgtcc cctcaagagc ccccagaacg agaccctgta ctctgtctta aaggcctaac 480
caatggacag ccctctcaag actgaatggg gagggccagg acagtggcgc acacctgtaa 540
tcccagctac tctgaagcct gaggcagaat caagtgagcc caggagtcca gggccagctt 600
tgataatgga gcgagatgcc atctctagtt aaaaatatat taacaataaa gtaacaaatt 660
t 661

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<210> 585

<211> 422

<212> DNA

<213> Homo sapiens

<400> 585

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gacatcatca acgcccgtgt ctctcagccct aaccgctact ggctgtgtgc tgccacaggc 180
cccagcatca agatctggga tttagaggga aagatcattg tagatgaact gaagcaagaa 240
gttatcagta ccagcagcaa ggcagaacca cccagtgca cctccctggc ctgggtctgct 300
gatggccaga ctctgttttg tggtacacg gacaacctgg tgcgagtgtg gcaggtgacc 360
attggcacac gctagaagtt tatggcagag ctttacaaaa aaaaaaaaaa ctggcttttc 420
tg 422

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<210> 586

<211> 924

<212> DNA

<213> Homo sapiens

<400> 586

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ggcttttctt tgtgggctca agagaaggcc atctccctga tgccatctgc atgatccatg 60
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tgtgcgtgga agacatcttc cagctcatta actactacag cttcagctac tggttctttg 180
tggggctttc tattgtgggt cagctttatc tgcgctggaa ggagcctgat cgacctcgtc 240
ccctcaagct cagcgttttc ttcccagatt tcttctgcct ctgcaccatc ttcttggtgg 300
ctgttccact ttacagtgat actatcaact ccctcatcgg cattgccatt gccctctcag 360
gcctgccctt ttacttctc atcatcagag tgccagaaca taagcgaccg ctttacctcc 420
gaaggatcgt ggggtctgcc acaaggtagc tccaggctct gtgtatgtca gttgctgcag 480
aaatggattt ggaagatgga ggagagatgc ccaagcaacg ggatcccaag tctaactaaa 540
caccatctgg aatcctgatg tggaaagcag gggtttctgg tctactggct agagctaagg 600
aacttgaaaa ggaaagctca cttcttttga ggcacctgtc cagaagcctg gcctaggcag 660
cttcaacctt tgaacttact ttttgaatat aaaagtaatt tatttgtttt gctacatact 720
gttccagact tttaaagggg acaatgaagg tgactgtggg gaggagcatg tcaggtttgg 780
gcttggttgt tttagaagca cctgggtgtg cctacctact cctcttttct tttaaaaggg 840
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atgccaataa aagtttatgt tcct 924

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<210> 587
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 587
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 gtcgagatgt cagagaaaaa gcagccggta gacttaggtc tgtagagga agacgacgag 120
 tttgaagagt tccctgccga agactgggct ggcttagatg aagatgaaga tgcacatgtc 180
 tgggaggata attgggatga tgacaatgta gaggatgact tctctaataca gttacgagct 240
 gaactagaga aacatgggta taagatggag acttcatagc atccagaaga agtggttgaag 300
 taacctaaac ttgacctgct taatacattc tagggcagag aacccaggat gggacactaa 360
 aaaaatgtgt ttattttcatt atctgcttgg atttatttgt gtttttgtaa cacaaaaaat 420
 aatatgtttg atat 434

<210> 588
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 588
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 ggcatacacag aggagagaca cataagaaag ctcttatctg cagccagact cttcaaactg 120
 ccgccaggcc ctgaggccat gtagccaggc ccggaatggg cctctctgga caagagccac 180
 cctttcactg tgcataatgat gctgatgcaa ttctctccatc atctctggac gtgcagacca 240
 gatccagaag aaaggcctgg cgtgtggcca aacagcgtga aaccttggca caggactgag 300
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<210> 589
 <211> 552
 <212> DNA
 <213> Homo sapiens

<400> 589
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 ttaagcacta tgtttgtgtt tttatcagta ttatattcat tgtctttgga atacatgttc 180
 ttgtttgtgt ttggaaaaaa aatctctttt accagcttgc actcggacca acttggaaaa 240
 aaaaaagctt aaatgttttt gctatgtaca gtttaaaaaat gtgaagtttg tagctttaac 300
 tttttgtaag aaaatctaata aacactggct taagtgtgta cttgaaatgc tattttgtaa 360
 ggtttggtat taagtaatca attgagggtc gcagtttgta tgagacatag cttcctccat 420
 tgccccact ccttttttct tttttaagtt tgagatgctt cctgtgtttt tatgttagaa 480
 ttgttgttct ccttcttttc ttcttcctat acctcatcac gtttgtntta aataaactgt 540
 cctttggacc ac 552

<210> 590
 <211> 672
 <212> DNA
 <213> Homo sapiens

<400> 590
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 gatggaagag caccagttcc ggaggagcca gggcagcgaa cacaaagccc cgcattgccg 120
 ggcagggttg gagagtcctt ctgcctgcgc agcctggctg ggttgagaca gcgggatggc 180
 ccttgctgcc tggctcacga aagccccctg tgggagagcc ccaggcgcgc agggcatgtg 240
 gggtgtggga agagcgggtc cccacgcccc ggtgtgggtg aactcgatag aggagggtga 300

```

caaccaccgg ggggtgctaata tagtaaccac agtggccttc aaagaactca aatgaaagga 360
agacttgtag gtctctcact ttaagtccag agctagaaat gattaagcct agtgaagatg 420
tagaattttc atagctagag agaagtcaat gcttggcttc aaaacttctt tgaggacca 480
tgcagctggg gactttaagt tacagccagt gctcattgac cactctgaaa atctcaggac 540
ccttaataat tatgcaaaat ctattctttc tgtgctctag aaatggaaca tcactgtctg 600
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cctactgctc ag
672

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<210> 591
 <211> 720
 <212> DNA
 <213> Homo sapiens

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<400> 591
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cggcttattg ctcatgcagg ttctctttta aatttggcca agcatgcagc ttctaccgtt 120
cagattcttg gagctgaaaa ggcacttttc agagccctca aatctagacg ggatacccct 180
aagtatgggc tcatttatca tgcttcactc gtggggccaga caagtcccaa acacaaagga 240
aagatttctc gaattgctggc agccaaaacc gttttggcta tccgttatga tgcttttggt 300
gaggattcaa gttctgcaat gggagttgag aacagagcca aattagaggc cagggtgaga 360
actttggaag acagagggat aagaaaaata agtgggaacag gaaaagcatt agcaaaaaca 420
gaaaaatatg aacacaaaag tgaagtgaag acttacgac cttctgggtga ctccacactt 480
ccaacctgtt ctaaaaaacg caaaatagaa caggtagata aagaggatga aattactgaa 540
aagaaagcca aaaaagccaa gattaaagtt aaagttgaag aagaggaaga agaaaaagtg 600
gcagaagaag aagaaacatc tgtgaagaag aagaagaaaa ggggtaaaaa gaaacacatt 660
aaggaagaac cactttctga ggaagaacca tgtaccagca cagcaattgc tagtccagag 720

```

<210> 592
 <211> 462
 <212> DNA
 <213> Homo sapiens

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<400> 592
ctcactgctc actgcaacct ctgcctccca ggttcaagca gttctctgtc ttggcctect 60
gagtagctgg gaccacaggc acacaccacc acgcctggct aatttttgta tttttagtgg 120
agacagagtt tcaccatggt gaccaggctg gcctaaaacc cctgatctca agtaatctgc 180
ctgcctcggc ctccaaagtg ctggaattac aggcgtaagc actgtgccag gccattttca 240
tgctattctt taaatttact tcctttgtaa atgaagacac tattaatcag ttttaatttta 300
atgtgtccaa tagaaactaa atgctaacta tcgattgcat gcttaattac ttttaccttt 360
gtcttaactc tactgttcct tacctaactt tttataacta ctttctgcat ttttgcatct 420
tcattttcca cccatttttg aataataaaa gaaaataaca at
462

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<210> 593
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> linker sequence

<400> 593
 gaattcggcc aaagaggcct a

21

<210> 594
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> linker sequence

<400> 594
gaattcggcc ttcatggcct a

21

<210> 595
<211> 8
<212> DNA
<213> Artificial Sequence

<220>
<223> linker sequence

<220>
<221> unsure
<222> (7)..(8)

<400> 595
gaattcnn

8

<210> 596
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> linker sequence

<220>
<221> unsure
<222> (1)..(9)

<400> 596
nnnnnnnnnc tcgag

15

<210> 597
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> linker sequence

<220>
<221> unsure
<222> (1)..(9)

<400> 597
nnnnnnnnng tcgac

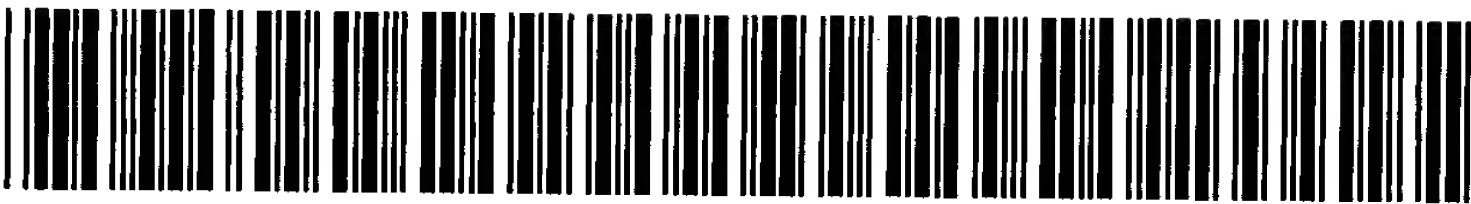
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<210> 598
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> linker sequence

<400> 598
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24



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